Name:

at1113exam: Expand, factor, and solve quadratics (v335)

1. Solve the equation.

$$(3x - 5)(4x + 7) \;=\; 0$$

2. Expand the following expression into standard form.

$$(7x + 4)(7x - 4)$$

3. Expand the following expression into standard form.

$$(2x + 5)(9x - 8)$$

4. Expand the following expression into standard form.

$$(5x + 4)^2$$

5. Solve the equation.

$$10x^2 + 51x - 19 \;=\; 3x^2 + 4x - 5$$

6. Factor the expression.

$$x^2 - 14x + 48$$

7. Factor the expression.

$$64x^2 - 49$$

8. Solve the equation with factoring by grouping.

$$20x^2 + 15x + 8x + 6 \;=\; 0$$